

Listing of Claims

Claims 1-33 (Canceled).

34. (Previously Presented) A kit for amplifying a target nucleic acid sequence wherein the target sequence is a nucleic acid sample of substantial complexity, the kit comprising a set of primers wherein the set of primers comprises primers having random nucleotide sequences, and a strand displacing DNA polymerase or a DNA polymerase and strand displacement factor compatible with the DNA polymerase,

wherein each primer comprises a constant portion and a random portion, wherein the constant portion of each primer has the same nucleotide sequence and the random portion of each primer has a random nucleotide sequence, and wherein the random portion is complementary to the target sequence.

Claims 35-38. (Canceled)

39. (Previously Presented) The method of claim 34 wherein the target sequence is a sample of genomic nucleic acid.

40. (Previously Presented) The method of claim 34 wherein the primers are from 12 to 60 nucleotides in length.

41. (Previously Presented) The method of claim 40 wherein the primers are from 12 to 40 nucleotides in length.

42. (Previously Presented) The method of claim 41 wherein the primers are from 15 to 40 nucleotides in length.

43. (Previously Presented) The method of claim 42 wherein the primers are from 15 to 25 nucleotides in length.

44. (Previously Presented) The method of claim 34 wherein the primers are all of the same length.

45. (Cancelled)

46. (Previously Presented) The method of claim 34 wherein the DNA polymerase is $\phi 29$ DNA polymerase.

47. (Previously Presented) A kit for amplifying a target nucleic acid sequence, the kit comprising

a set of primers wherein the set of primers comprises a plurality of primers, wherein each primer comprises a complementary portion, wherein the complementary portions of each of the primers in the primer set are each complementary to a different portion of the hybridization target, wherein all of the primers in the set of primers are complementary to the same strand of the target sequence, wherein the set of primers has 3 or more primers, and

a strand displacing DNA polymerase or a DNA polymerase and a strand displacement factor compatible with the DNA polymerase.

48. (Previously Presented) The kit of claim 47 wherein the set of primers has 4 or more primers.

49. (Previously Presented) The kit of claim 48 wherein the set of primers has 5 or more primers.

50. (Previously Presented) The kit of claim 47 wherein the DNA polymerase is φ29 DNA polymerase.

51. (Canceled)

52. (Previously Presented) The kit of claim 34, wherein the set of primers consists of the primers having random nucleotide sequences.

53. (Previously Presented) The kit of claim 47, wherein the set of primers consists of the plurality of primers.

54. (Previously Presented) The kit of claim 34, wherein each primer consists of the constant portion and the random portion.

55. (Previously Presented) The kit of claim 47, wherein the complementary portion of all of the primers in the set of primers are complementary to a different portion of the hybridizing target.